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Substitute for form 1499A/PTO	Сотр	olete if Known
( OCT 3 0 2007 )	Application Number	09/501,622
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STATEMENT BY APPLICANT	First Named Inventor	Mills

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Sheet 1 of

Application Number	09/501,622
Filing Date	02/09/2000 .
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut
Attorney Docket Number	

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Examiner Initials*	Cite No. 1	U.S. Patent	Code Kind Code (if known)	Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Group Art Unit	1745	
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		64. Mills et al., "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Internet Publication Date: June 26, 2002.)					
		63. Mills et al., "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochimica Acta, Vol. 406, Issue 1–2, (2003), pp. 35–53. (Internet Publication Date: June 25, 2002.)					
		62. Mills et al., "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride," Inorganica Chimica Acta, submitted.					
		61. Mills et al., "Highly Stable Amorphous Silicon Hydride," Solar Energy Materials & Solar Cells, Vol. 80, No. 1, (2003), pp. 1–20. (Internet Publication Date: April 15, 2002.)					
Examiner Signature		Date Considered	<u>[</u>				

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Substitute	for form 1449B/PTO			Complete if Known		
Cubstitute	101101111114498/1-10			Application Number	09/501,622	
INI	FORMATION	ו חומ	CI OSLIDE	Filing Date	02/09/2000	
	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	necessary)	Examiner Name	Kalafut	
Sheet	22	of	94	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
		60. Mills et al., "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, Vol. 39, (2004), pp. 3309-3318. (Internet Publication Date: May 3, 2002.)					
		59. Mills et al., "The Potential for a Hydrogen Water-Plasma Laser," Applied Physics Letters, Vol. 82, No. 11, (2003), pp. 1679–1681. (Internet Publication Date: July 11, 2002.)					
	58. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, (2003), pp. 433-498. (Internet Publication Date: May 23, 2002.)						
	57. Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, J. of Quantitative Spectroscopy						
		56. R. M. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications," 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), pp. 1-4. (Internet Publication Date: March 28, 2002.)					
		55. Mills et al., "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser," European J of Phys. D, submitted. (Internet Publication Date: April 22, 2002.)					
		54. Mills et al., "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts," J. Phys. D, Applied Physics, Vol. 36, (2003), pp. 1504–1509. (Internet Publication Date: March 20, 2002) also submitted to Chem Phys. Letts.					
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Examiner Signature		Date Considered					

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Substitute	for form 1449B/PTO			Complete if Known		
Cabstitute	1011011111114432/1110			Application Number	09/501,622	
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	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	s necessary)	Examiner Name	Kalafut	
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		52. Mills et al., "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon lons," New Journal of Physics, Vol. 4, (2002), pp. 70.1–70.28. (Internet Publication Date: October, 2002)					
		51. Mills et al., "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 2, (2003), pp. 236–247. (Internet Publication Date: Feb. 4, 2002.)					
	50. Mills et al., "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Vibrational Spectroscopy, Vol. 31, No. 2, (2003), pp. 195–213.						
	49. Mills et al., "Comparison of Excessive Balmer Line Broadening of Inductively and Capacitively Coupled RF, Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 3, (2003), pp. 338–355.						
		48. Mills et al., "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity," IEEE Transactions on Plasma Science, October, (2002), Vol. 30, No. 5, pp. 2066–2073. (Internet Publication Date: March 26, 2002.)					
		47. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from a Plasma Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," Plasma Sources Science and Technology, Vol. 12, (2003), pp. 389.					
		46. Mills et al., "Emission in the Deep Vacuum Ultraviolet from a Plasma Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," Plasma Sources Science and Technology, Vol 12, (2003), pp. 389–395.					
		45. Mills et al., "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride as the Product of a Catalytic Helium-Hydrogen Plasma Reaction," Int. J. Hydrogen Energy, Vol. 28, No. 12, (2003), pp. 1401–1424. (Internet Publication Date: April 15, 2002.)					
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Substitute	10/10/11/14495/710			Application Number	09/501,622	
INI	ORMATION	ארם	SCI OSLIDE	Filing Date	02/09/2000	
	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	s necessary)	Examiner Name	Kalafut	
Sheet	24	of	<i>Э4</i>	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
		44. Mills, et. al. "Synthesis and Characterization of Lithium Chloro Hydride", <i>International Journal of Hydrogen Energy</i> , submitted. (Internet Publication Date: January 7, 2002.)					
		43. Mills et al., "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen," New Journal of Physics, www.njp.org, Vol. 4, (2002), pp. 22.1–22.17. (Internet Publication Date: Dec. 27, 2001.)					
	42. Mills et al., "A Comprehensive Study of Spectra of the Bound-Free Hyperfine Levels of Novel Hydride lon, Hydrogen, Nitrogen, and Air," Int. J. Hydrogen Energy, Vol. 28, No. 8, (2003), pp. 825–871. (Internet Publication Date: Nov. 14, 2001.)						
	41. Mills et al., "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries," Proceedings of the 17th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), pp. 1–6.						
		40. Mills et al., "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568–1578. (Internet Publication Date: Nov. 12, 2001.)					
	1 1 2	39. Mills et al., "Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by an Exothermic Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," J. Phys. Chem. A, submitted. (Internet Publication Date: Nov. 13, 2001.)					
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Examiner Signature		Date Considered	1				

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Substitute	101101111114495/F10			Application Number	09/501,622	
INI	ORMATION	וח ו	SCI OSLIDE	Filing Date	02/09/2000	
	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	s necessary)	Examiner Name	Kalafut	
Sheet	25	of	24	Attorney Docket Number		

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		36. Mills et al., "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. (Internet Publication Date: Oct. 9, 2001.)	
		35. Mills et al., "New Power Source from Fractional Rydberg States of Atomic Hydrogen," Current Appl. Phys., submitted. (Internet Publication Date: Oct. 9, 2001.)	
		34. Mills et al., "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen," J. of Quantitative Spectroscopy and Radiative Transfer, in press. (Internet Publication Date: Oct. 9, 2001.)	
		33. Mills et al., "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion," J Mol. Struct., Vol. 643, No. 1-3, (2002), pp. 43–54. (Internet Publication Date: Oct. 10, 2001.)	
		32. Mills et al., "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 927–935. (Internet Publication Date: Sept. 19, 2001.)	
		31. Mills et al., "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 967–978. (Internet Publication Date: Sept. 14, 2001.)	
		30. Mills et al., "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas," Int. J. Hydrogen Energy, Vol. 27, No. 6, (2002), pp. 671–685. (Internet Publication Date: Aug. 22, 2001.)	
		29. Mills et al., "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 533–564. (Internet Publication Date: July 19, 2001.)	
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Substitute	for form 1449B/PTO			Complete if Known		
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	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
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Sheet	26	of	<i>94</i>	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
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		28. Mills et al., "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," Int. J. Hydrogen Energy, (2002), Vol. 27, No. 3, pp. 301–322. (Internet Publication Date: Aug. 1, 2001.)	
		27. Mills, et. al. "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", <i>International Journal of Hydrogen Energy</i> , Vol. 27, No. 2, (2002), pp. 183-192. (Internet Publication Date: January 11, 2002)	
		26. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity," Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common	
		25. Mills, et. al. "Minimum heat of formation of potassium iodo hydride." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1199-1208. (Internet Publication Date: March 23, 2001)	
		24. Mills, et al. "Stereoscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the hydride ion product." <i>International Journal of Hydrogen Energy</i> , Vol. 26. 2001. pp.1041-1058. (Internet Publication Date: March 23, 2001.)	
		23. Mills et al., "Optically Measured Power Balances of Glow Discharges of Mixtures of Argon, Hydrogen, and Potassium, Rubidium, Cesium, or Strontium Vapor," Int. J. Hydrogen Energy, Vol. 27, No. 6, (2002), pp. 651–670. (Internet Publication Date: July 20, 2001.)	
		22. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts, (29th	
		21. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 565–590. (Internet Publication Date: Sept. 17, 2001.)	
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Substitute	e for form 1449B/PTO			Complete if Known		
Capsillate	101 101111 14490/F 10			Application Number	09/501,622	
INI	FORMATION	פוח ו	CI OSLIDE	Filing Date	02/09/2000	
	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	necessary)	Examiner Name	Kalafut	
Sheet	27	Of	24	Attorney Docket Number		

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		20. Mills et al., "Argon-Hydrogen-Strontium Discharge Light Source," IEEE Transactions on Plasma Science, Vol. 30, No. 2, (2002), pp. 639–653. (Internet Publication Date: Dec. 7, 2000.)	
	:	19. Mills et al., "Identification of Compounds Containing Novel Hydride Ions by Nuclear Magnetic Resonance Spectroscopy," Int. J. Hydrogen Energy, Vol. 26, No. 9, (2001), pp. 965–979. (Internet Publication Date: March 22, 2001.)	
		18. Mills, "BlackLight Power Technology-A New Clean Energy Source with the Potential for Direct Conversion to Electricity," Global Foundation International Conference on "Global Warming and Energy Policy," Dr. Behram N. Kursunoglu, Chairman, Fort Lauderdale, FL,	
		17. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory," Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059–1096. (Internet Publication Date: Dec. 11,	
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		15. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Certain Catalysts," Int. J. Hydrogen Energy, Vol. 25, (2000), pp. 919–943. (Internet Publication Date: June 27, 2000.)	
		14. R. Mills, "Observation of Extreme Ultraviolet Emission from Hydrogen-KI Plasmas Produced by a Hollow Cathode Discharge," Int. J. Hydrogen Energy, Vol. 26, No. 6, (2001), pp. 579-592. (Internet Publication Date: July 10, 2000.)	
		13. Mills, "Temporal Behavior of Light-Emission in the Visible Spectral Range from a Ti-K2CO3-H-Cell," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 327–332. (Internet Publication Date: July 10, 2000.)	
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Oubstitute	70110111111443271110			Application Number	09/501,622	
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	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
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		12. Mills et al., "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749–762. (Internet Publication Date: June 28, 2000.)	
		11. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309–326. (Internet Publication Date: June 27, 2000.)	
		10. Mills et al., "Synthesis and Characterization of Potassium Iodo Hydride," Int. J. of Hydrogen Energy, Vol. 25, Issue 12, December, (2000), pp. 1185–1203. (Internet Publication Date: Nov. 12, 2001.)	
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		8. Mills et al., "Synthesis and Characterization of Novel Hydride Compounds," Int. J. of Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 339–367. (Internet Publication Date: June 13, 2001.)	
		7. R. Mills, "Highly Stable Novel Inorganic Hydrides," Journal of New Materials for Electrochemical Systems, Vol. 6, (2003), pp. 45-54. (Internet Publication Date: Nov. 20, 2001.)	
		6. R. Mills, "Novel Hydrogen Compounds from a Potassium Carbonate Electrolytic Cell," Fusion Technology, Vol. 37, No. 2, March, (2000), pp. 157-182. (Internet Publication Date: June 26, 2000.)	
		5. Mills, "The Hydrogen Atom Revisited," Int. J. of Hydrogen Energy, Vol. 25, Issue 12, December, (2000), pp. 1171–1183. (Internet Publication Date: June 27, 2000.)	
Examiner Signature		Date Considered	1

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1	ATEMENT			First Named Inventor	Mills	
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		4. Mills et al., "Fractional Quantum Energy Levels of Hydrogen," Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697–1719. (Internet Publication Date: Nov. 1, 2001.)	
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		Mills, "Classical Quantum Mechanics." Physica Scripta, submitted.	
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		Mills, et. al. Fusion Technol. Vol.20, 65 (1991). Internet Publication Date 4/11/01	
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	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
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		Mills,. "Author's response 'A possible trick of Hydride atom'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, p. 1225.	
		Mills, "BLACKLIGHT POWER TECHNOLOGY: A New Clean Energy Source with the Potential for Direct Conversion to Electricity," International Conference on Global Warming and Energy Policy, Ft. Lauderdale, Florida, November 26-28, 2000. Internet Publication 1/19/01	:
		Mills, "Hydro catalysis Power Technology," Statement of Dr. Randell L. Mills, May, 1993.	
		Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 1-9	
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		Mills, "Author's response to 'Hydrino atom: novel chemistry or invalid physics'," International Journal of Hydrogen Energy, Vol 26, 2001, pp. 1233.	
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		Mills."Power Spectrum of the Cosmic Microwave Background" BlackLight Power, Inc. 2001.	
		Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 13-14, BlackLight Power, Inc., pp. 433-440, 2001.	
Examiner Signature		Date Considered	1

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

Substitute	e for form 1449B/PTO			Complete if Known		
	7.0.70			Application Number	09/501,622	
INI	FORMATION	DIS	SCLOSURE	Filing Date	02/09/2000	
ST	ATEMENT E	BY A	PPLICANT	First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets as	s necessary)	Examiner Name	Kalafut	
Sheet	31	of	94	Attorney Docket Number		

			T
Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Letter from Shelby T. Brewer to The Honorable James E. Rogan, December 21, 2001 and PTO response from Jason C. Roe, April 24, 2002 (see Attachment A)	
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		RANDI, "Houdini and the Rabbi, The Patent Office Again, A Perpetual Motion/Emotion Car Breaks Down," Swift, September 20, 2002, <a href="https://www.randi.org/jr/092002.html">www.randi.org/jr/092002.html</a> (see Attachment C)	
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		Internet Discussion Forum, "Two Brand New Papers out at BLP's "What's New" page," message No. 7191 on Hydrino Study Group, http://groups.yahoo.com/group/hyrino/message/7191, September 27, 2003 (see Attachment H)	
		Internet Discussion Forum, "Even Skeptics can lose Objectivity," message No. 7410 on Hydrino Study Group, http://groups.yahoo.com/group/hyrino/message/7410, October 27, 2003 (see Attachment H)	
		Internet Discussion Forum, "Two Competing Views of Reality Engage in a Battle for Total Control of Oour Physics Paradigm," Hydrino Study Group, <a href="http://www.hydrino.org">http://www.hydrino.org</a> (see Attachment H)	
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Tom Stolper, November 10, 2003 (see Attachment H)	
Examiner Signature		Date Considered	ı

Substitute	for form 1449B/PTO			Complete if Known		
Cubstitute	101101111 14405/1 10			Application Number	09/501,622	
IN	FORMATION	DIS	SCLOSURE	Filing Date	02/09/2000	
ST	ATEMENT E	BY A	APPLICANT	First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets a	s necessary)	Examiner Name	Kalafut	
Sheet	32	of	34	Attorney Docket Number		

Examine	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
r Initials*	No. 1	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk," Transcript from Peter Zimmerman and Tom Stolper, October 29, 2003 (see Attachment H)	
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		Internet Discussion Forum, "HSG: Even skeptics can lose objectivity," Transcript from Steve Menton, October 26, 2003 (see Attachment H)	
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		Internet Discussion Forum, "Re: Re: Zero Electrostatic Self-Interaction Justified," Transcript from Peter Zimmerman, May 22, 2003 http:groups.yahoo.com/group/hydrino/message/6052 (see Attachment H)	
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		PARK, "Perpetual Motion: Still Going Around," Special to the Washington Post, January 12, 2000, Page H03 (see Attachment J)	
		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger with Attachments A-E, January 19, 2001(see Attachment K)	
		PLATT, "Testing the Current," The Washington Post, June 25, 2000, Page X05 (see Attachment M)	
Examine: Signature		Date Considered	

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				Application Number	09/501,622		
INI	FORMATION	DI	SCLOSURE	Filing Date	02/09/2000		
	ATEMENT E	-		First Named Inventor	Mills		
				Group Art Unit	1745		
	(use as many she	ets a	s necessary)	Examiner Name	Kalafut		
Sheet	33	of	24	Attorney Docket Number			

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Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
W		USPTO Communication re Interview scheduled for February 21, 2003, February 12, 2001(see Attachment N)	
		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)	
		Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)	
		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)	
		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O)	
		Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)	
		Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001 (see Attachment O)	
		Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)	
		Email re Interview Summary from Jeffrey Simenauer to Ted Liu, February 13, 2003 (see Attachment P)	
		"APS E-Board Pases Resolution on Perpetual Motion Machines," APS NEWS ONLINE, August/September 2002, <a href="http://www.eps.org/aps/apsnews/0802">http://www.eps.org/aps/apsnews/0802</a> /080212.html (see Attachment Q)	
Examiner Signature		Date Considered	

Substitute	for form 1449B/PTO			Complete if Known		
Cabanda	10/10/11/14/05/1/10			Application Number	09/501,622	
INF	ORMATION	DI	SCLOSURE	Filing Date	02/09/2000	
ST	ATEMENT E	BY A	APPLICANT	First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets a	s necessary)	Examiner Name	Kalafut	
Sheet	34	of	FY.	Attorney Docket Number		

		OTHER PRIOR ART — NON PATE	NT LITERAT	TURE DOCUMENTS	
Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTE item (book, magazine, journal, serial, symposium, publisher, city and/or	, catalog, etc.), da	ate, page(s), volume-issue number(s),	T <sup>2</sup>
		Letter from Elizabeth Barlow to John Allen, Ma	arch 17, 2004	4 (see Attachment R)	
		Letters from John Allen to Office of Counsel, I May 12, 2003, June 7, 2003, and March 10, 2	US Departme	ent of Commerce with attachments, achment R)	
	!				
Examiner Signature			Date Considered		

· [4]	Γ			Cash		
FOADCHAR			Compensation	Payments	Options	Shares
ATTACHMENT A		Date(s)	Arrangements	Made	Issued	Owned
AKHTAR		1	Employee		EE Options	
(Employee)	Dr. Kamran		Salary	-	Only	None
BALDWIN						
	Dr. R.	-	<u>-</u>	_	None	None
, , , , , , , , , , , , , , , , , , , ,						
BONIFACE					N	Nama
	Dr. H.A.	-		-	None	None
DD 4 DE ODD	Dik Michael		Ad Hoc/			•
BRADFORD	LUG.	0/40/4004	One-time	9/13/1994	None	None
(PSU Student)	Witerstell	9/13/1994	Only	9/13/1994	None EE Options	None
CHANG	D. 76:		Employee			Nama
(Employee)	Dr. Zhixiang	-	Salary	<del>-</del>	Only EE Options	None
CHEN	Da Chua Ku	G/1/04 E/01/0E	¢EO/hour	2/7/2005		None
(EE & Consultant) CHEN	Dr. Chun-Ku	6/1/04-5/31/05	\$50/hour Employee	2/7/2005	Only EE Options	None
l :	D. V			]	1 ' 1	None
(Employee)	Dr. Xuemin	<del>-</del>	Salary	<del>-</del>	Only	INUITE
CLARK						Maria -
(INP Greifswald)	Dr. H.R.	-		-	None	None
					Ontions granted	
'					Options granted from 9/9/96 to	
3	(autoria)				8/5/97;	
CONRADS						
(INP Greifswald		9/4/00 0/22/05	2 wire transfers	2/14/00	some options	Sama antions
	Dr.	8/4/99-9/23/05	2 wire transfers	6/12/01	expired;	Some options exercised
				0/12/01	some options exercised 9/7/06	9/7/06
to Conrads)	Johannes Dr. W.Y.				None	
CRAIG	Dr. W.T.	-	•	-	None	None
CRAW-IVANCO	l 1				<b>N</b> 1	N.
(Chalk River Labs)	Dr. M.T.	•	-	-	None	None
DAYALAN	5 50		Employee	İ	EE Options	Alama.
(Employee) DHANDAPANI	Dr. Ethirajulu	•	Salary	<u> </u>	Only	None
l ·	D- D-1-		Employee		EE Options	Nama
(Employee)	Dr. Bala	- 7/30/03-1/31/04	Salary \$35/hour	2/28/02	Only	None
DONG		2/1/04-7/31/04	\$35/10ui \$45/hour	8/20/03	EE Options	
(EE & Consultant)	Dr. Jinquan	11/16/04-5/1/505	\$45/1001 \$45hour	0/20/03	Only	None
ECHEZURIA	Di. Jiliquan	11/10/04-0/1/000	Employee		EE Options	HOHE
(Employee)	Alejandra	_	Salary	_	Only	None
FRALICK	Alejanura	<u>-</u>	Jaiary	<del> </del>		110110
(Semitech)	Dr. G.C.	-	_	_	None	None
FUELLING	Dr.				1	
(U Nevada)	Stephan.			_	None	None
GAMBERALE	Luca			-	None	None
GERNERT						
(Thermacore)	Dr. N.J.	, -	_	_	None	None
, , , , ,					EE & Officer	
					Options Issued	Shares Owned
1	•	i	i	1		
GOOD		·	Employee		Beginning	Beginning

	[			7/19/95		<del></del>
		11/1/01-10/31/02	\$50/hour	4/27/01	1	•
		1	·		ł	
		11/1/02-10/31/03	\$50/hour	10/14/02		
	1	3/8/04-3/7/05	\$50/hour			
		3/8/05-3/7/06	\$50/hour	1		
REENIG		3/8/06-3/7/07	\$50/hour		EE Options	
EE & Consultant)	Nelson	3/8/07-3/7/08	\$50/hour		Only	None
IALDEMAN	D- CW			l i	None	None
<i>MIT Lincoln Labs)</i> IE	Dr. C.W.	-	Employee	<u> </u>	EE Options	None
_						A1
Employee)	Dr. Jiliang	-	Salary	-	Only	None
IICKS	<sub>a</sub> ,		Employee		EE Options	A1
Employee)	Steven	-	Salary		Only	None
HILBORN			•			
Chalk River Labs)	Dr. J.W.	-	-	-	None	None
•						
SELER						
MIT Lincoln Labs)	Dr. G.W.	•	-	-	None	None
*						
v.				1	Options granted	
	1 1 1	1		]	9/9/96 to 3/3/97;	
JACOX	Dr.				all options	
INEL)	Dr. Michael	-	-	-	expired	None
						Purchased shares
						7/2/97;
	,					gifted to
JANSSON		6/10/02-10/31/02	\$100	10/17/97		ex-wife and son
Rowan U)	Dr. Peter M.	(contract)	\$10	12/31/2002	None	5/1/07
KNEIZYS	S.	-	-	-	None	None
KRYUKOV						
Moscow Power						
Engineering						
Institute)	Dr. A.P.	<u>-</u>	-	_	None	None
					Options granted	
					9/9/96 to	
KURTZ	Dr.				11/8/02; some	
(PSU)	Stewart	_	_	_	expired	None
LEE	Constant of the constant of th					
(U of Ohio)	Dr. Jang-Jung	•	_	-	None	None
	<u> </u>	8/6/01	\$100/hour	10/01/01		<u> </u>
		5/9/03-5/16/03	\$80/hour	5/23/03		
		5/27/03-5/30/03	\$80/hour			
		5/30/03-6/30/03	\$45/hour			
LU		7/1/03-7/31/03	\$45/hour	1	EE Options	
EE & Consultant)	Dr. Ying	8/1/03-1/30/04	\$45/hour		Only	None
MARCHESE	Dr. Ying	6/10/02-10/31/02	\$10	<del>                                     </del>	Offiny	NOILE
(Rowan U)	Arthomy J.	(contract)	non-material	12/31/2002	None	None
MAYO	ANTONOLOYIO	(contract)	Hon-material	12/3/1/2002	EE Options	IAOHE
(EE & Consultant)	Dr. Robert	6/8/01-8/8/01	\$50/hour	7/23/2001	Only	None
MEYERS	DI. NODEIL	0/0/01-0/0/01	Ψοσποαί	172372001	Oliny -	HONE
(NASA)	Dr. 1.	_	_	_	None	None
, NASA)				-	INUITE	MOHE
				1	Options granted	
			1	1	9/9/96 to 3/3/97;	
			1	1		1
: MILLER	:SIG				all ontions	
MILLER (Lehigh U)	Dr. Alitad	_	\$250	6/12/1997	all options expired	None

MILLS EE & Director)	Dr. Randell	-	Employee Salary	- 1	EE & Director Options Issued Beginning 9/9/96	Shares Owned Beginning 1991
NANSTEEL		3/30/05-3/29/06 3/30/06-3/29/07	\$80/hour \$80/hour	8/24/2005	EE Options	
	Willey TO	3/30/07-8/31/08	\$80/hour	1	Only	None
VESTEROV			· · · · · · · · · · · · · · · · · · ·			
Moscow Power						
Engineering						
	Dr. S.B.	-	-	-	None	None
NIEDRA					N1	Mana
	Dr. J.	-	-	-	None	None
NONINSKI	D- V				None	None
(Brookhaven) ONUMA	Dr. V.	-	- Employee	-	EE Options	None
	Dr. Takeyoshi	_	Salary	_	Only	None
(Employee)	Dr. rakeyosiii		Galaly		Only	Purchased share
						9/20/96 &
					Options granted	7/2/97; transferred
					4/7/97	shares
				1	to 4/27/98;	to ScottishPowe
					some options	Ventures, Inc.
PACIFICORP		<u>-</u>	-	-	expired	6/21/07
PETERSON						<b>A.</b> 1 _
(Westinghouse)	Dr. S.H.	- 2/1/96-1/31/97	- \$100/hour	-	None	None
	, i	1/1/97-4/30/97	Options Only			
		3/15/00-3/18/00	\$5,000	4/26/95		
,		10/8/01-4/8/02	\$125/hour	5/9/00		
		4/8/02-10/8/02	\$125/hour			
		10/9/02-10/8/03	\$125/hour			
		10/9/03-10/8/04	\$100/hour		Options granted	
		10/9/04-10/8/05	\$100/hour		9/9/96-1/14/06;	Some options
PHILLIPS		10/9/05-10/8/06	\$100/hour		some options	exercised
(PSU,UNM,LANL)	Dr. Jonathan	10/9/06-10/807	\$100/hour		exercised	9/1/06 & 2/20/0
RAY			Employee		EE Options	
(Employee)	Dr. Paresh	-	Salary	<u> </u>	Only	None
		3/17/03-3/16/04	\$50/hour		EE Options	Nama
(EE & Consultant)	Javesice	3/22/04-3/21/05	\$50/hour	-	Only	None
SAVOYE					None	None
(MIT Lincoln Labs)	Dr. G.W.	1/5/05-1/4/06	- \$800/day	<del> </del>	None	Notice
SCHARER		1/5/06-1/4/07	\$100/hour			
(U Wisconsin)	Dr. John	1/5/07-1/4/08	\$100/110ur	11/14/2005	None	None
SCHMALZEL	Dr. John Dr.	6/10/02-10/31/02	\$10	1.17.17/2000	110110	
(Rowan U)	John (F	(contract)	non-material	12/31/2002	None	None
SHANNON		,	Employee		EE Options	
(Employee)	Tina	-	Salary		Only	None
SHAUBACH						
(Thermacore)	Dr. R.M.	-	-	-	None	None
SIMMONS						
(Lehigh U)	Dr. G.	-	-	-	None	None
TREMBLAY						
(Chalk River Labs)	Dr. R.P.	-	-	-	None	None

TURNER	Dr. Comil		_	-	None	None
(Spectral Data) VOIGT	Dr. Gary L.	-	-	-	EE Options	110110
(EE & Consultant)	Dr. Andress	8/27/04-8/26/05	\$50/hour	-	Only	None
WATTS						
(INEL)	Dr. K.D.	-	-	-	None	None
WEISMANN	Dr. H.	•	-	-	None	None
WIESMANN	Dr. H.	-	-	-	-	-
WRUBEL						*****
(INP Greifswald)	Dr. Th.	-	-	-	None	None
ZEA			Employee		EE Options	
(Employee)	Dr. Hugo	-	Salary	-	Only	None



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PTO/SB/08B (Modified)

Substitute for form 1449B/PTO			Complete if Known		
Substitute	10f 10ffff 1449B/P1O		Application Number	09/501,622	
INIE	ORMATION I	NECI OSUBE	Filing Date	02/09/2000	
	ATEMENT BY		First Named Inventor	Mills	
			Group Art Unit	1745	
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
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Examiner Signature		Date Considered					

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

PTO/SB/08B (Modified)

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	<u> </u>	4,337,126		ļ <u>.</u>	Gilligan III, et a	al	06-29-1982			
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	9	Attorney Docket Number	62-226-8AC4-DIV2		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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		Kolos, et. al. "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 41, No 12, Dec 1964, pp. 3663-3673.	
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Substitute	e for form 1449B/PTO			Complete if Known		
Substitute	, .			Application Number	09/501,622	
INI	FORMATION	DI	SCLOSURE	Filing Date	February 9, 2000	
ST	ATEMENT E	BY A	APPLICANT	First Named Inventor	Mills	
				Group Art Unit	1754	
(use as many sheets as necessary)				Examiner Name	Langel	
Sheet	7	of	9	Attorney Docket Number	62-226-8AC4-DIV2	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Cite No. 1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
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Sheet	9	of	9	Attorney Docket Number	62-226-8AC4-DIV2	

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				Group Art Unit	1745	
(use as many sheets as necessary)			s necessary)	Examiner Name	Kalafut	
Sheet	1		12	Attorney Docket Number	8ac4-D2	

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	60	R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, in press. (Web Publication Date: May 3, 2002.)	
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Substitute	for form 1449B/PTO			Complete if Known		
Cabbanan	101101111111111111111111111111111111111			Application Number	09/501,622	
INF	FORMATION	DIS	SCLOSURE	Filing Date	02/09/2000	
STATEMENT BY APPLICANT				First Named Inventor	Mills	
(use as many sheets as necessary)				Group Art Unit	1745	
				Examiner Name	Kalafut	
Sheet	2		12	Attorney Docket Number	8ac4-D2	

		-OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examine r Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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	105	J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," J. Appl. Physics, submitted. (Web Publication Date: September 7, 2004.)	
	106	R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Foundations of Science, submitted. (Web Publication Date: October 28, 2004.)	
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				Group Art Unit	1745	
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Sheet	4	of	12	Attorney Docket Number	8ac4-D2	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. 1							
		CRITCHLEY et al, "Energy shifts and forbidden transitions in $H_2$ due to electronic g/u symmetry breaking", <i>Molecular Physics</i> , 2003, Vol. 101, Nos. 4-5, pp. 651-661, Taylor & Francis Ltd.						
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Examiner Initials*	Cite No. 1							
		COTTON et al, "Complexes of Cyclic 2-Oxacarbenes, I. A Spontaneous Cyclization to Form a Complex of 2-Oxaclyclopentylidene", Journal of the American Chemical Society, 93:11, pp. 2672-2676, June 2, 1971						
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Examiner Initials*	Cite No. 1								
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				Application Number	09/501,622	
IN	FORMATION	DI	SCLOSURE	Filing Date	02/09/2000	
	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
	(use as many she	ets a	s necessary)	Examiner Name	Kalafut	
Sheet	Sheet 7 of 12			Attorney Docket Number	8ac4-D2	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.							
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